MnO₂@Ce6 loaded mesenchymal stem cells as "oxygen-laden guided-missile" for enhanced photodynamic therapy on lung cancer

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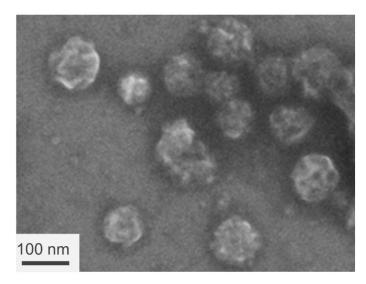


Fig.S1 SEM images of MnO₂@Ce6 NPs.

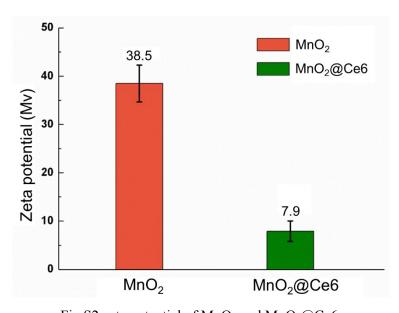


Fig.S2 zeta potential of MnO₂ and MnO₂@Ce6.

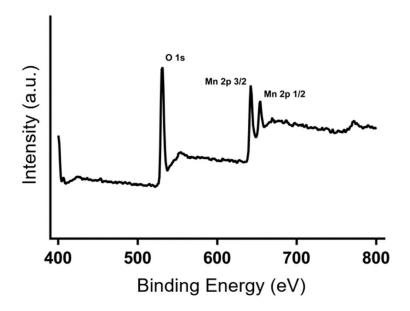


Fig. S3 XPS spectra of MnO₂

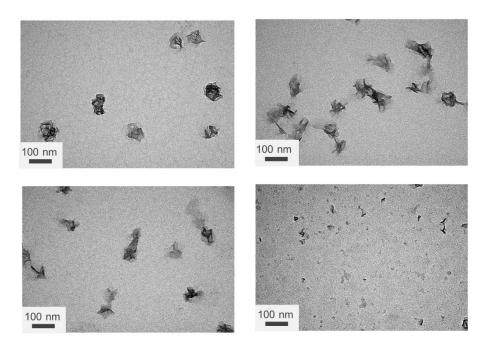


Fig.S4 TEM images of MnO2@Ce6 degradation process in 100 μ M H2O2

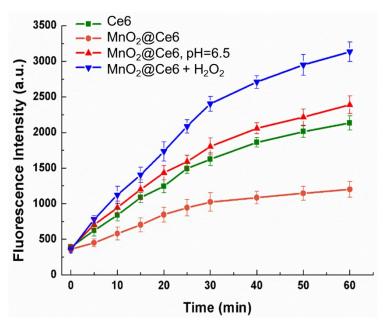


Fig.S5 Time-course singlet oxygen release of Ce6 and MnO₂@Ce6 NPs in different conditions.

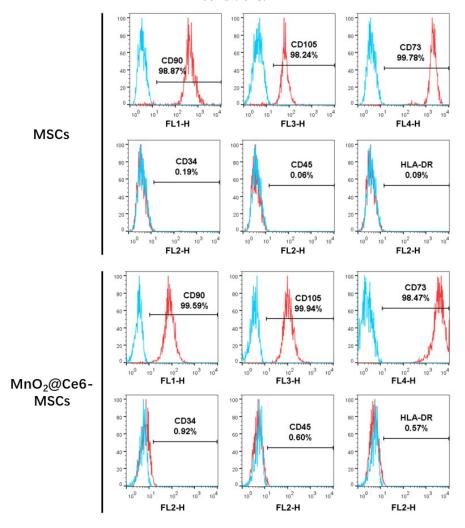


Fig.S6 Immunophenotype identification of MSCs before and after loading MnO₂@Ce6.

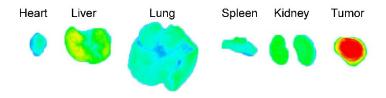


Fig. S7 Fluorescence images of excised organs and tumor at 24 h post-injection



Fig. S8 Photographs of mice treated with saline and MnO₂@Ce6-MSCs after 14 days

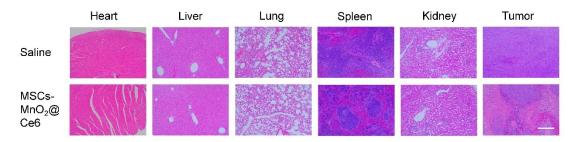


Fig.S9 H&E sections of main organs and tumor after treatment for 14 days (Scale bar: $200 \mu m$)